

Classical cadherin

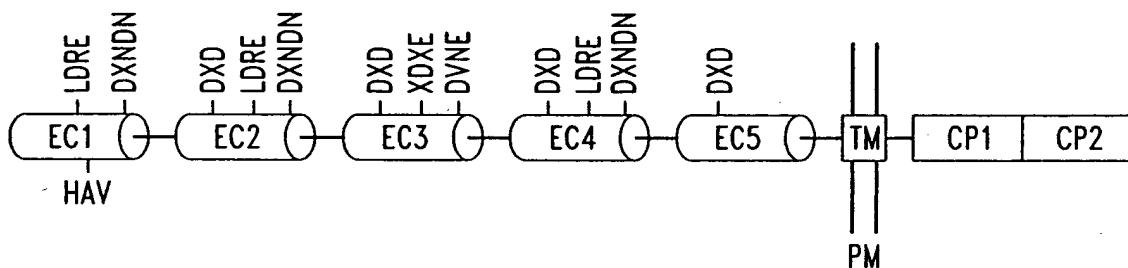


Fig. 1A

OB-cadherin

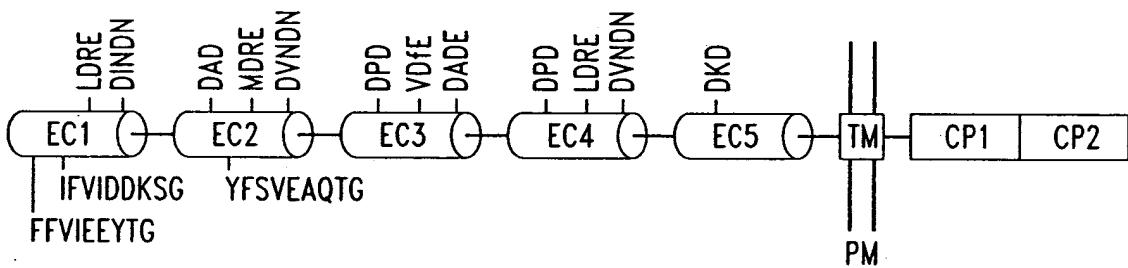


Fig. 1B

Cadherin-5

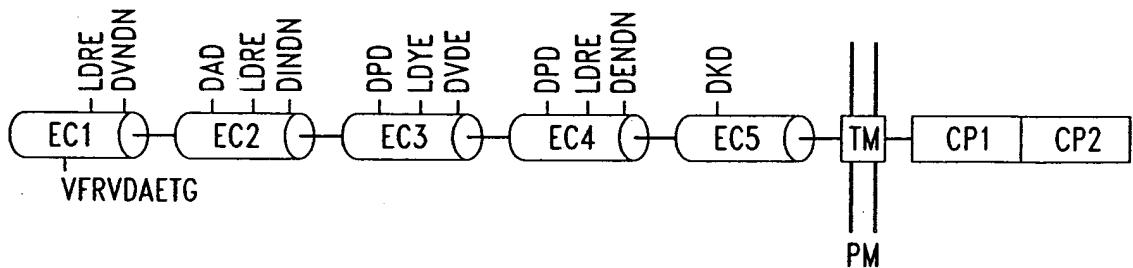


Fig. 1C

Cadherin-6

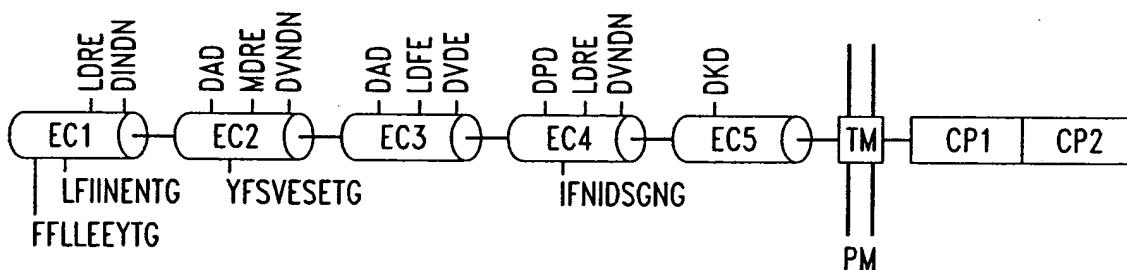


Fig. 1D

Cadherin-7

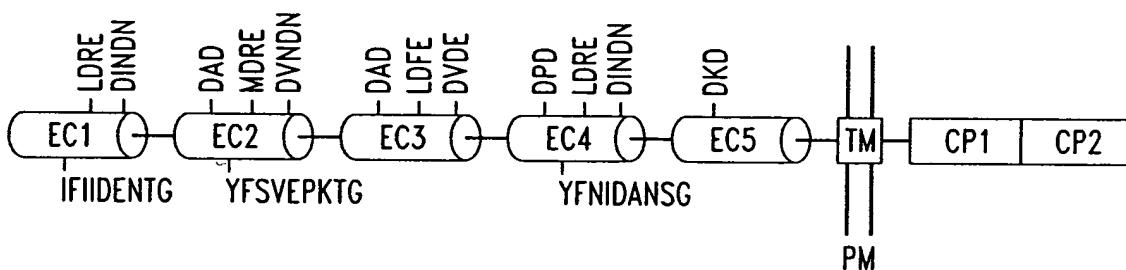


Fig. 1E

Cadherin-8

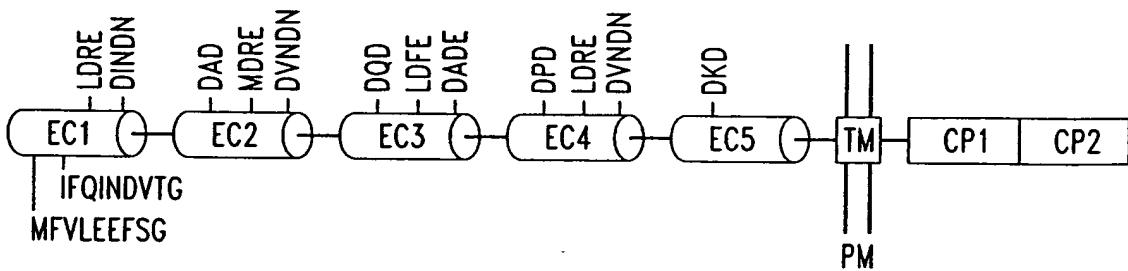


Fig. 1F

Cadherin-12

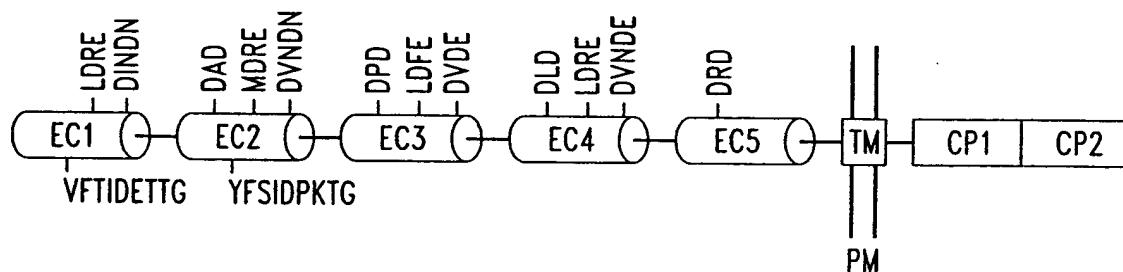


Fig. 1G

Cadherin-14

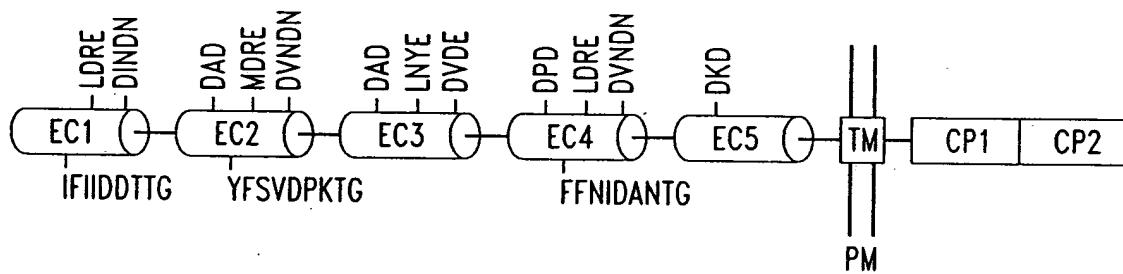


Fig. 1H

Cadherin-15

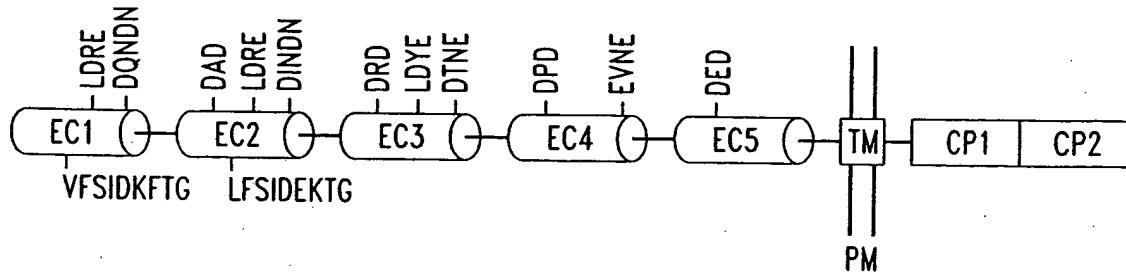


Fig. 1I

T-cadherin

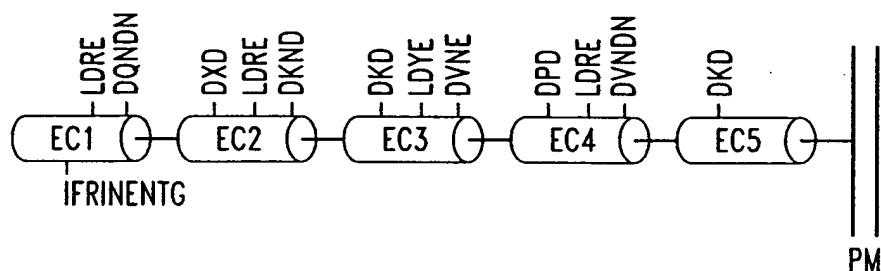


Fig. 1J

PB-cadherin

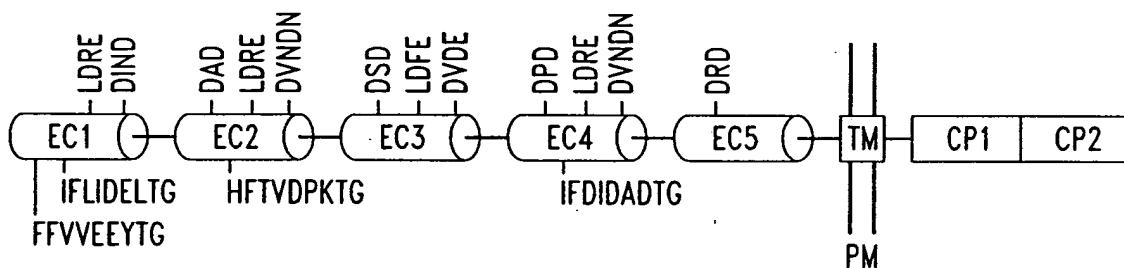


Fig. 1K

LI-cadherin

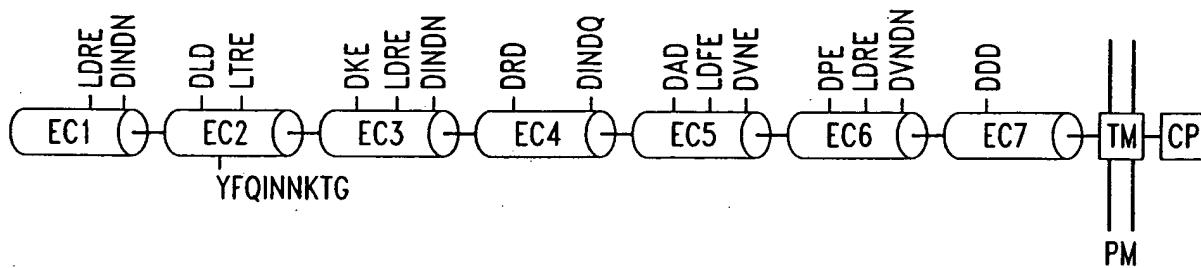


Fig. 1L

Protocadherin 43

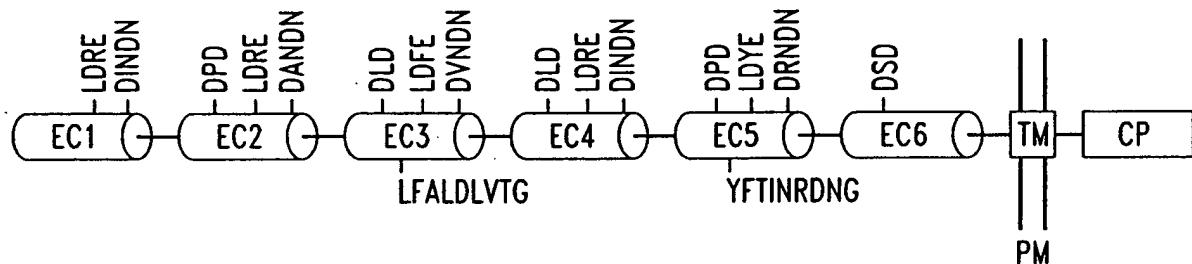


Fig. 1M

Protocadherin 68

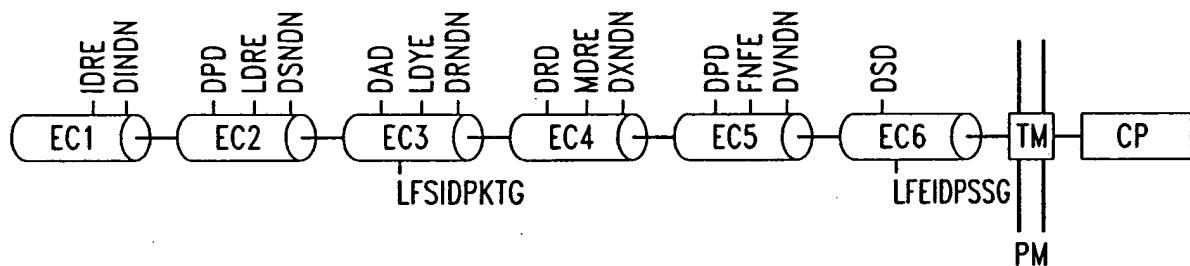


Fig. 1N

Desmoglein 1

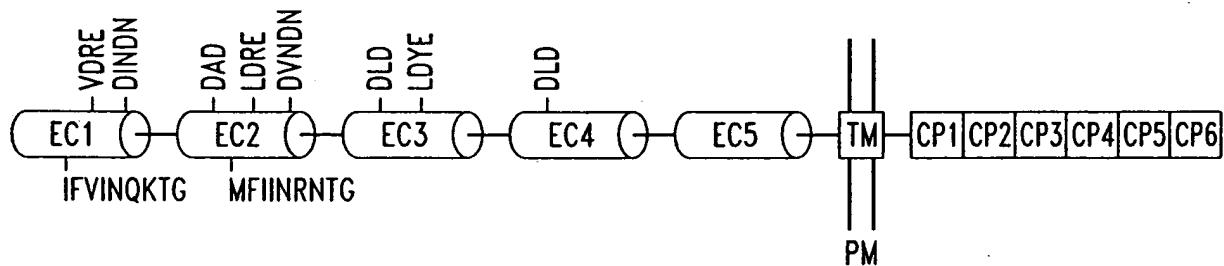


Fig. 10

Desmoglein 2

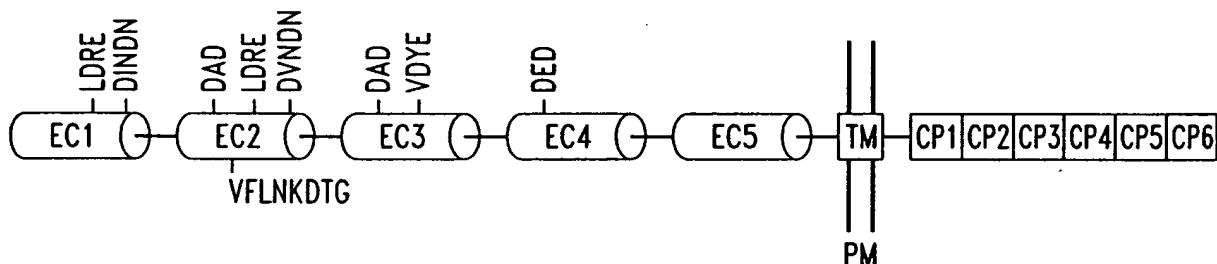


Fig. 1P

Desmocollin 1

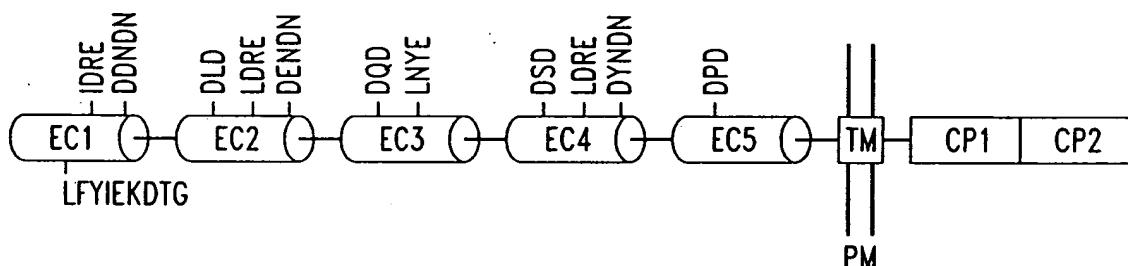


Fig. 1Q

Desmocollin 2

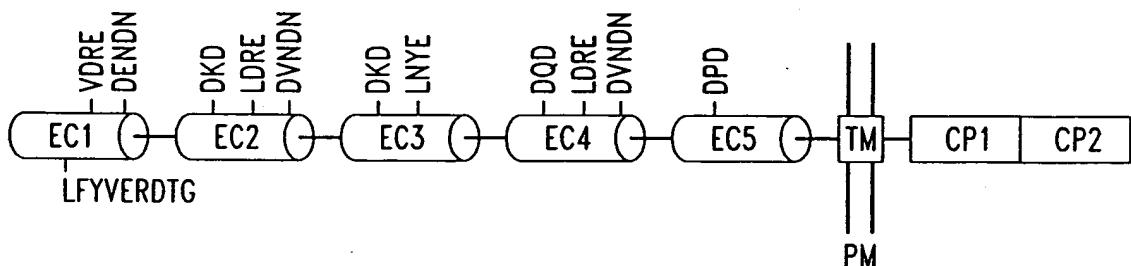


Fig. 1R

Desmocollin 3

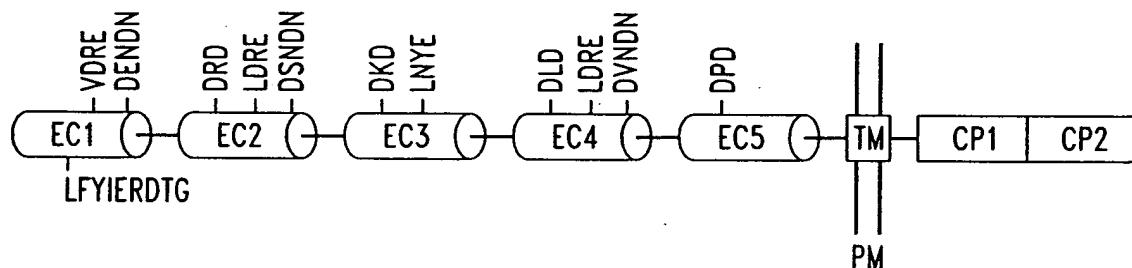


Fig. 1S

Desmocollin 4

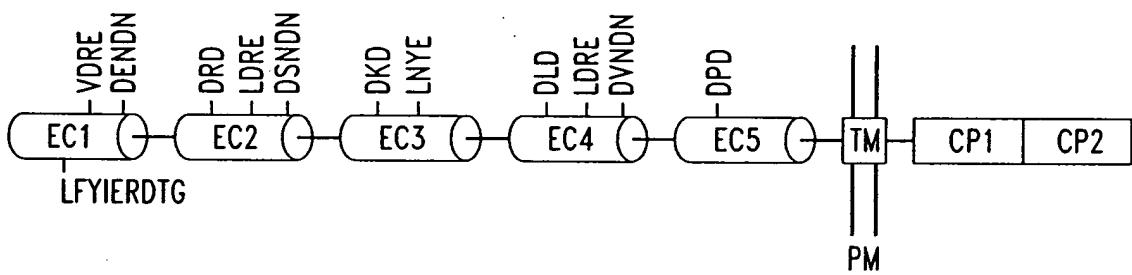


Fig. 1T

Cnr1

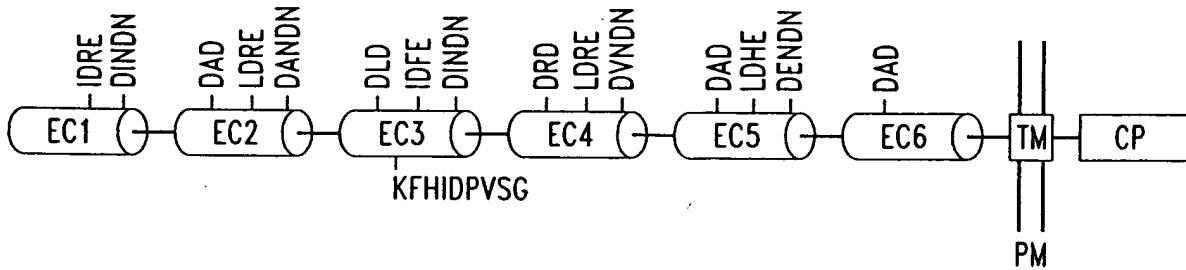


Fig. 1U

Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

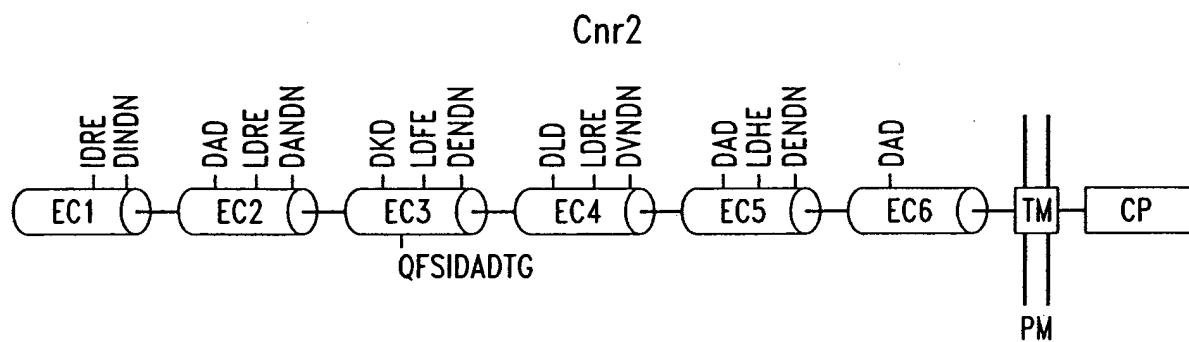


Fig. 1V

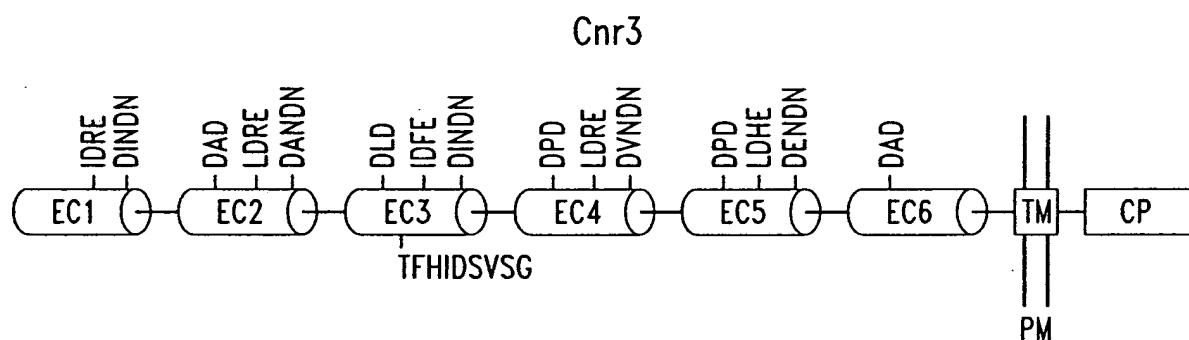


Fig. 1W

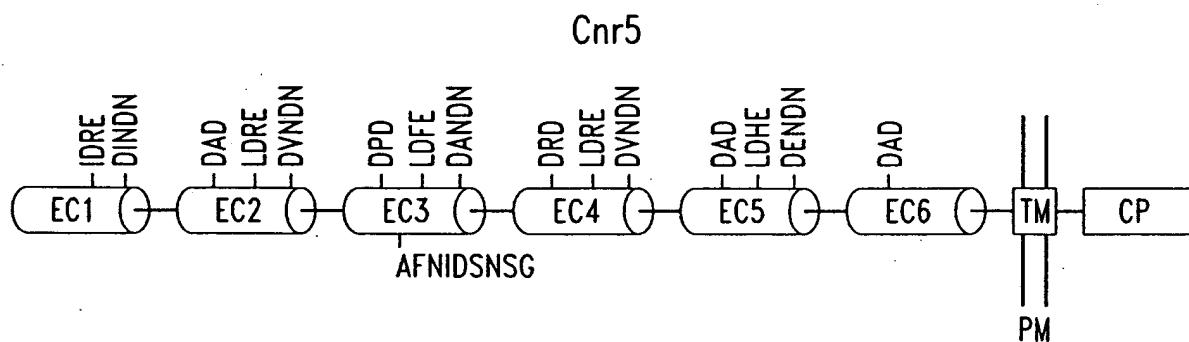


Fig. 1X

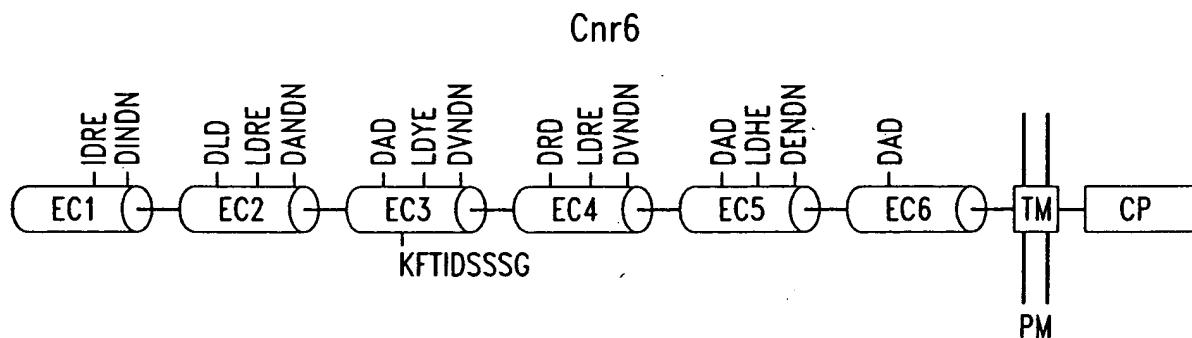


Fig. 1Y

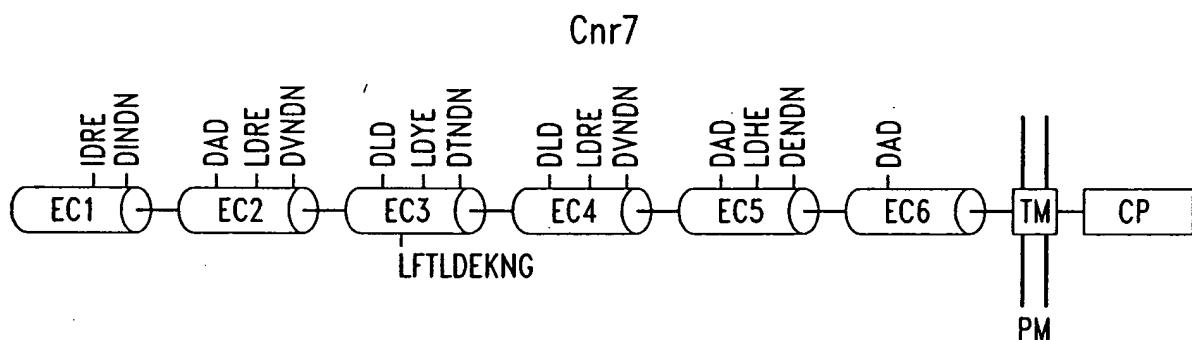


Fig. 1Z

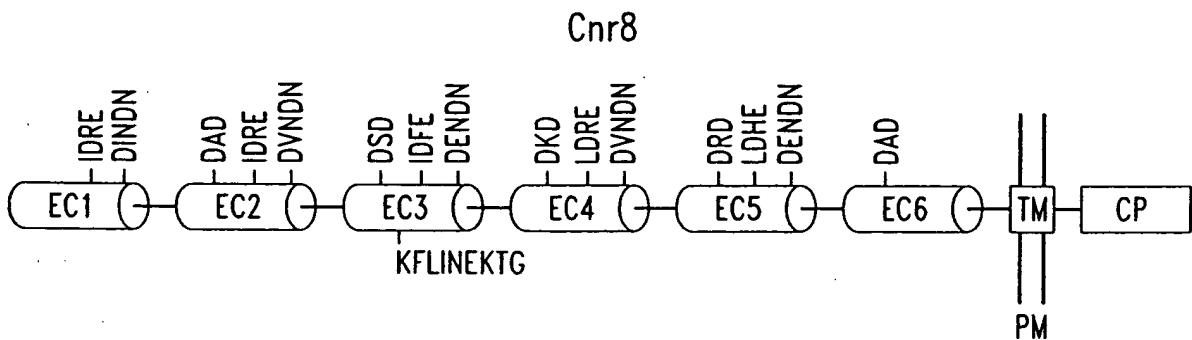


Fig. 1AA

Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CAD-1-MEDIATED FUNCTIONS
 Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

0bcd	EC1	RSKRGHWWNQFFVIEYTGPDPVLVGRHLSDIDSGD--.GNIKYILSGEGAG--.TIVYDDKSGII-HATKTLDEERAQ--.YTLMAQAVDRDT--.NRPLEPSEFTIKVQDINDNPREF
0bcd	EC2	--.LHETYHANPERS-NVGTSVIQNTASADDPTGNSAKLVYSTLEQGP--.YFSVEAQTFIIRTAPEMDREAKEE--.YHVIQAKDMGG-HMGGGLSGTTKVITLTDVNDNPREF
Cad5	EC1	RQKRDTIWNQMHDEEKNTSLPHIGKJ1KSSISRKN--.AKYLKGEGYVG--.KVRFDAAETGDV-FATERLDRENTESE--.YHLTAIVDKDGT--.ENLETPSSFTIKVHDWINDNPREF
Cad6	EC1	RSKRSHMMWNQFELLEETGSYDQYIGKLHSIDQRGD--.GSLKYILSGDGAG--.DIFTINENTGDI-QATKRLDREEKPV--.YILRAQAINRRT--.GRPYPESEFTIKIHDINDNEPTE
Cad6	EC2	--.TKEVYATVPEMS-DVGTFWVQVTADADDPTGNSAKVWYSLQGP--.YFSVESETGIKTTALLNMDREREQ--.YQWV1QAKDMGG-QMGGLSGTTWINTLTDVNDNPREF
Cad6	EC4	--.SKLAYILQIREDA-QINTTIGSYTAQDPAAR--.NPVKYSVDRHTMD--.RJFNIDSGNSI-FTSKULDRETLLW--.HNITVIAATEINN--.PKQCSRVRPLYKVLWDINDNPREF
Cad7	EC1	RTKRSWVNQFFFLEEMGSPLYIGKLHSIDVDKGD--.GSIKYILSGEGAS--.SIFTIDENTGDI-HATKRLDREEDAY--.YTLRAQAHDLT--.NKPVPESEFVTKIQQDINDNEPTE
Cad7	EC2	--.LGDPYTAGVPEMS-PVGTWSVQNTADADDPTGNSARVWYSLQGP--.YFSVEPKTGJIKTAPNMDREAKQ--.YLLV1QAKDMGG-QNGGLSGTTSVTTLTDVNDNPREF
Cad7	EC4	--.TSRLYSWVSEAA-KVGTIITGVAAHPDASN--.SPVRYSDRNTDLE--.RPNIDANSQI-TTAKSLDRETNAV--.HNITV1AMESQI--.PAQJGRGYAITLTDINDNEPTE
Cad8	EC1	RSKRGHWWNQMFVLEEFSGPEPITVGRHLTDLPGS--.KKIKYILSGDGAG--.TIFQINDVTGDI-HAIKRLDREKEAE--.YTLTAQAVDWT--.SKPLEPSEFTIKVQDINDNPREF
Cad12	EC1	RVKRGHWWNQFFFLEEVYIGSEPOYIGKLHSIDLKGE--.GTVKYLTSGDGAG--.YFSIDPXTGIVIERTALPNMDREIKEQ--.YQWL1QAKDMGG-QLGGLAGTTWINTLTDVNDNPREF
Cad12	EC2	--.LGDPYVATVPEMS-PVAYYLQVKATADADDPTGNSARVWYSLQGP--.YFSIDPXTGIVIERTALPNMDREIKEQ--.YQWL1QAKDQIDRRT--.NKPLEPSEFTIKVQDINDNPREF
Cad14	EC1	RPKRGHWWNQFFFLEEHNGDPQDQYIGKLHSNSDKGD--.GSVVKYILTGEAGAG--.TIFT1DDTTGDI-HSTKSLDREIKTH--.YVL1HAQAIIDRRT--.YQWL1QAKDMGG-QLGGLAGTTWINTLTDVNDNPREF
Cad14	EC2	--.LGDPYVATVPEMS-DMGTSLQVTADADDPTGNSARVWYSLQGP--.YFSYDPTGIVIERTALHNMDREAREH--.YSVW1QAKDMGG-QVGGLSGTTWINTLTDVNDNPREF
Cad14	EC4	--.SMPSYLMEVYENA-KIGTVGTVLAQDPSDTN--.SLVRYF1NYNVEDD--.RFFNIDANTGTTRT-TKVLDREETPW--.YNTITVASEION--.PDLSLHTV/GTRVLDWINDNPREF
Cad15	EC1	-RVURRAWVPP1VSЕНHKR1P1VLPVQIKSDKQQ--.LGSVYIYSTQGPVDEEPGRFSIDKFTGV-FLNAMLDREKTR--.FRLRAFALD1GG--.STLEDPTOLEIWVWDQNDNPREF
Cad15	EC2	--.LQEAFTRGVLEGA-VPTGYTRAETADDPETDWAIRFSI.QGSPE--.LFSIDELTGEIRTYVGLDREWAV--.YNLTLQVA-D--.MSGDGLTATASATITLDDINDNEPTE
Tcad	EC4	-RQRRTSIVVSP1LIPENQRPFPROVGKVDSRPERSKFLTGKVIDQEPKG--.TFRINENTGSV-SV/TRTLDREIVIAV--.YQLFVEETDING--.KTLEGPPLEVI1QDQNDNPREF
PBcd	EC1	RVKRGHWWNQFFFWEETGTEPLYVGK1HSDSDEGD--.GTIKYITSGEGAG--.TFL1IDELTGDI-HATERLDREQKTF--.YTLRAQARDRAT--.NRLEPESEFTIKVQDINDSEPREF
PBcd	EC2	--.LHGPIYGSAELS-PTGTSWQMWSADDPTGSSARLVIYSLDGEH--.HFTVDPKTGIVIATVPLDRESQER--.YEWV1QATDMAG-QLGGLSGTTVTVWTDWINDNPREF
PBcd	EC4	--.RPPSGLLEQEDA-QVGSLYGWVTAOPDAAN--.RPRVYAIIDRSOLE--.QFDIDADTGA1-VTGKGLDRETAGW--.HNITV1AMEADN--.HAQLSRASLRIRLWDINDNPREF
Licd	EC2	--.LQSKYEGSVRQNS-RPKPFLYWNATDLDPATPGQLYQV1QLPMWVWYFQJINNKTA1--.SLTREGSDFELNPAKMPYLVISVKDMGGOSENFSQTTSDV1IVTTENIKAPR
Pcd3	EC3	--.NOSLYRARVPGGC-TSGTRVIVQVLATDDEGP--.GEI1YSGSHNRAGVR-QLFALDVTGML-TKGRLDFFDTKL--.HE1Y1QAKDMGG--.NPEGAHKV1-VEVDVINDNEPTE

Fig. 2A

Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
 Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

Pcd43	EC5	----SOSSYDWYIEENN-LPGAPITLNLSWIDPDAQN-ARLSFFLEQGAETGLVGRYFTINRONGIV-SSLVPLDYEDRRE----FELTAHISDGST---PVLATNISVNIFVTDNDNAQV
Pcd68	EC3	----EAPSYLELPENT-PLGTVIDLNATDAEGP---NGEVLYFSSSVVPDRVR-ELFSIDPKTGLI-RVKGNLDVEENGH---LEIDVQARDLGP---NLIPAHCKTVKLIDRNDNAPSI
Pcd68	EC6	VLPTLQNDTAELQVPRNAGLGVSTVRAIDLSDDFGE-SGRLTYEIVDGGD----HLEIDPSSGEI-RTLHPPMEDVTPIV-----VELVVKVTDGKPT-----
Dsg1	EC1	RQKREWIKFAACREGEDNSKRNPIAKITHSDCAAN----QQVITYRISGIGDQPPYGFVTMOKTGEI-NITSIVDREVTPIF-----FIITYCRALNSMG---ODLERPLERVRVILDINDNPPVF
Dsg1	EC2	SMATFAQQEENS-NANTLVMLNATDADEPNLNISKIAFKTIIRQPSDSP---MFIIINRNNTGEIRTMNNFLDREQYQGQ-----YALAVRGSDDG-GADGMSAECENKIKLIDWNDNIPYM
Dsg2	EC2	TQDVFGSVEELS-AAHTLWMKINAATDADEPNLNISKISYRIVSLSPAYPP----VFYLNKDGTGEIYTTSVTLDREHSS----YLTVEARDNGEVTDKPKVQAQQIRILDNDNIPWV
Dsc1	EC1	YTFYFISIGGCVGDKEPFNLFYIEKDGTGI-FCTRSIDREKYEQ----FALGYATADG--YAPEYPLP-LIJKIEDNDNAPY
Dsc2	EC1	RWAPIPASLMENSLGPFPFLQVQIOSDAQN----YTYIYSIRGCVGDQEPRNLFYIWERDTGNL-YCTRPIVDRDQYES----FEJIAFATTFDG--YTPELPLP-LIJKIEDNDNYP1
Dsc2	EC1	RWAPIPCSMLENSLGPFPFLQVQIOSDAQN----YTYFYSISGGCVGDKEPNLFYIERDTGNL-YTPELPLP-LIJKIEDNDNYP1
Dsc3	EC1	RWAPIPCSMQENSLGPFPFLQVQIESDAQN----YTYFYSISGGCVGDKEPNLFYIERDTGNL-FCTRPVDRREYDV----FDLJAYASTADG--YSDLPLP-LPIRVDEDNDNHPV
Dsc4	EC1	RWAPIPCSMQENSLGPFPFLQVQIESDAQN----YTYFYSISGGCVGDKEPNLFYIERDTGNL-FCTRPVDRREYDV----FDLJAYASTADG--YSDLPLP-LPIRVDEDNDNHPV
Cnr1	EC3	DRSLYTVKLPEIN-PNGTLVVKWNASLDLEG---NGDIMSFTDITSPNWK-YKFHDIDPVSGEI-TVKGYDFFEECKS----YELIEGIDGQ---LPLSGHCKVIVQVEDINDNPEL
Cnr2	EC3	QHPEYEVRLENS-DNGTTVIRLNASDKEGT--NSATSYSFNRLVPPKTL-EQFSIDADTGEI-ITQGNLDFEQDV----YKIHVDAIDKGH---PPMWGHCTVLVKVLDENDNVPQI
Cnr3	EC3	DRAITRVKLVENA-RNGTIVIRLNASDLEGS--NGQILYSFAADUSPKTE-ATFHIDSYSGEI-KVNGKDFFETNL----WKTQAEAVDKGS---PPMFIGHCTLIEVLDINDNAPK1
Cnr5	EC3	DRFIYVKVLEDA-LNGTLVNLNATDPDEGI---NGDITYSFRRVSPAW-HAFNIDSNSGEV-RTKGGLDFEEJKL----YCPVEAVDIGN---IPMTIGHCTLLVELLDNDNAPYV
Cnr6	EC3	DKSIYNRVLLENT-PNGTLVIKLNASDDEGI--NKE1YYFFSNLYLDDVK-SKFTDSSSGEI-KVKGELDYEDCKV----YETNIDAVDRSA---FPLAGHCKJITVKLIDWNDNIPVM
Cnr7	EC3	DHLEYKVTRIMENA-AKETLVITLNATDDEGA--NGQLVYSLM-1KPTGRH-LFTLDEKNGEL-RVNGTLDYEEENKL----YETEVLATDGT----PPMWGHCVLVEILDNDNSPEV
Cnr8	EC3	DRSVYEVKWMENQ-ENKTLVIMLNATDSDEGI--NKEVEYSFSSLASSITR-QFLINNEKTGEI-KINGAIDFEESMN----YELHVDAIDKGY---PPMWAHCTVLFETDENDNAPYI

Fig. 2B

Title: COMPOUND ██████ METHODS FOR MODULATING NONCLASSICAL CAD████-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

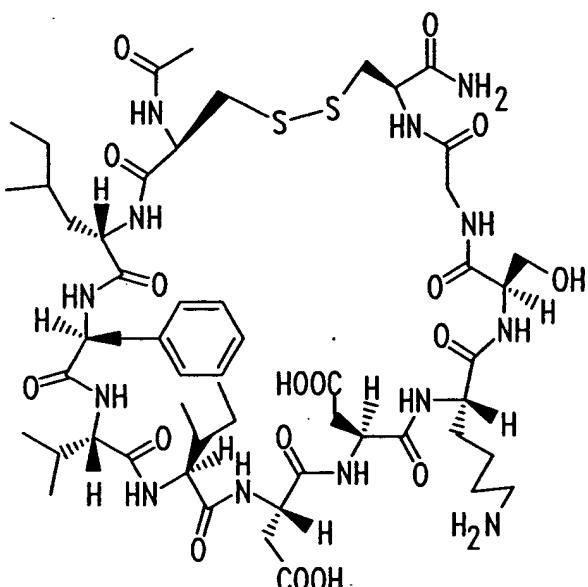
Human G W V W N Q F F V I E E Y T G P D P V L V G R L H S D I D S G D G N I K Y I L S G E G A G
Mouse G W V W N Q F F V I E E Y T G P D P V L V G R L H S D I D S G D G N I K Y I L S G E G A G

Human T I F V I D D K S G N I H A T K T L D R E E R A Q Y T L M A Q A V D R D T N R P L E P P S
Mouse T I F V I D D K S G N I H A T K T L D R E E R A Q Y T L M A Q A V D R D T N R P L E P P S

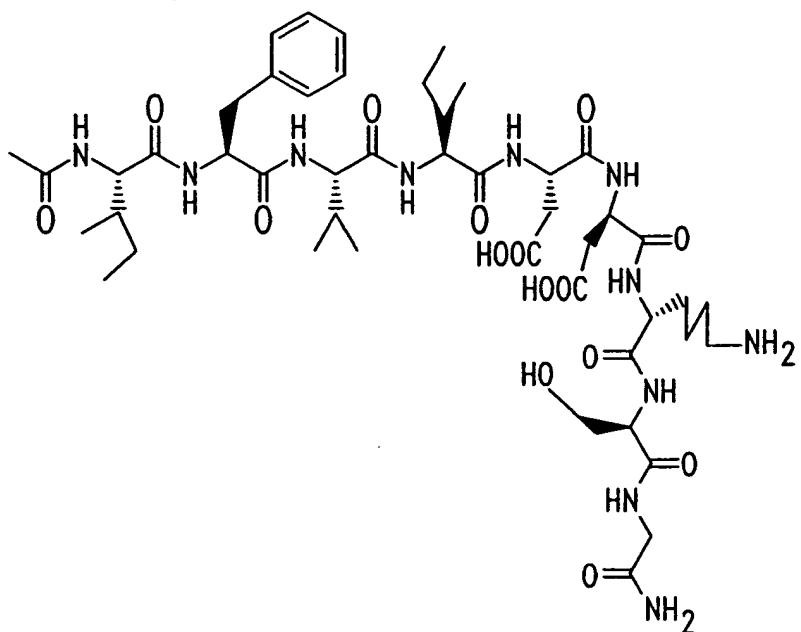
Human E F I V K V Q D I N D N P P E F
Mouse E F I V K V Q D I N D N P P E F

Fig. 3

Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1



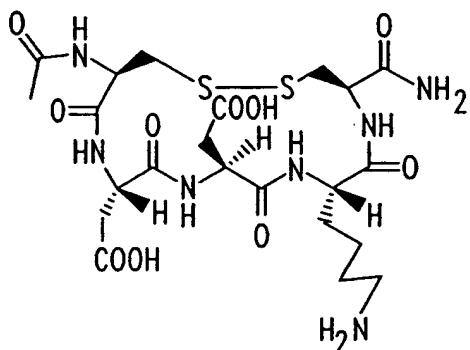
N-Ac-CIFVIDDKSGC-NH₂



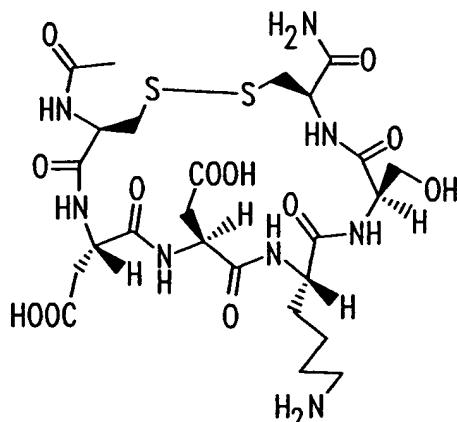
N-Ac-IFVIDDKSG-NH₂

Fig. 4A

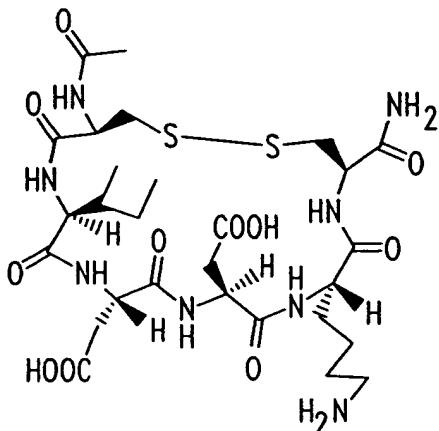
Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1



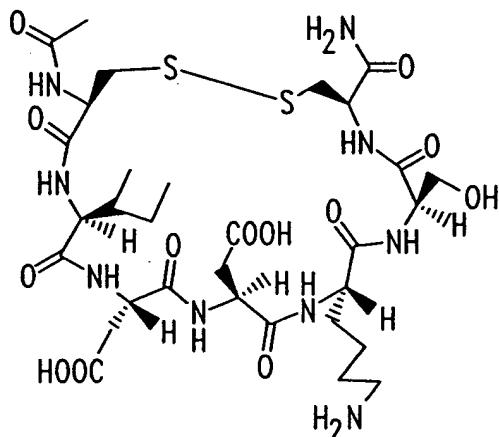
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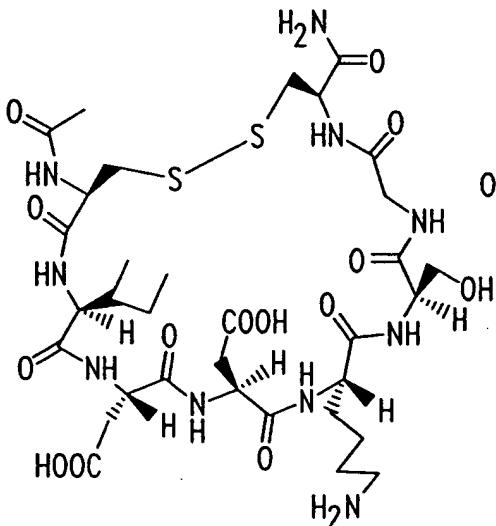
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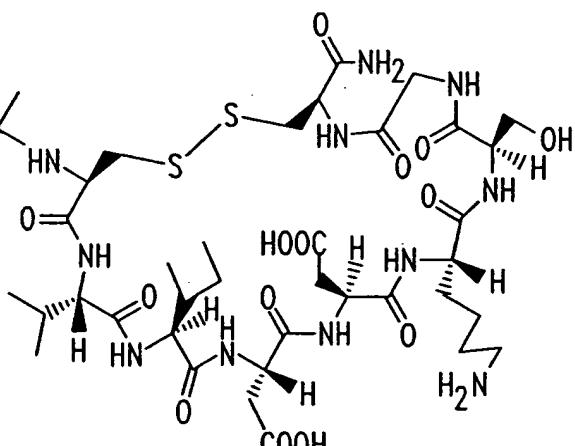
N-Ac-CIDDKC-NH₂



N-Ac-CIDDKSC-NH₂

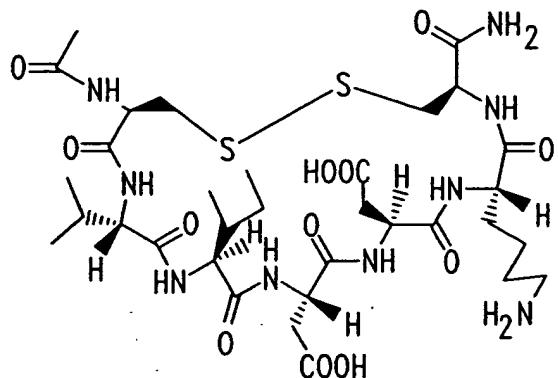


N-Ac-CIDDKSGC-NH₂

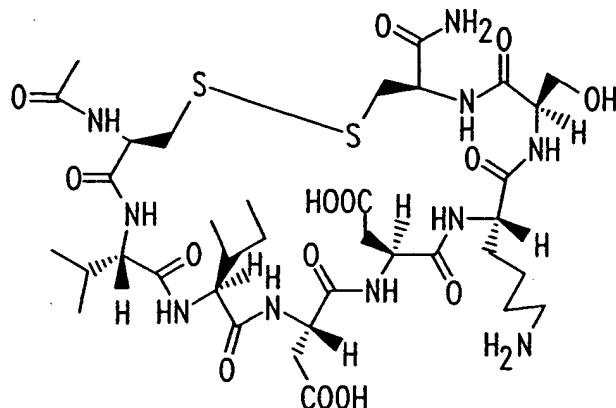


N-Ac-CVIDDKSGC-NH₂

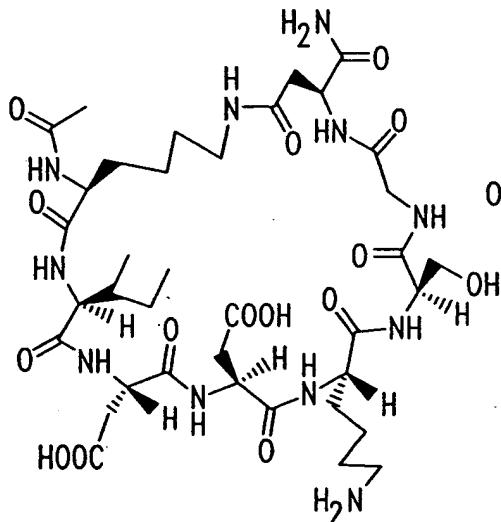
Fig. 4B



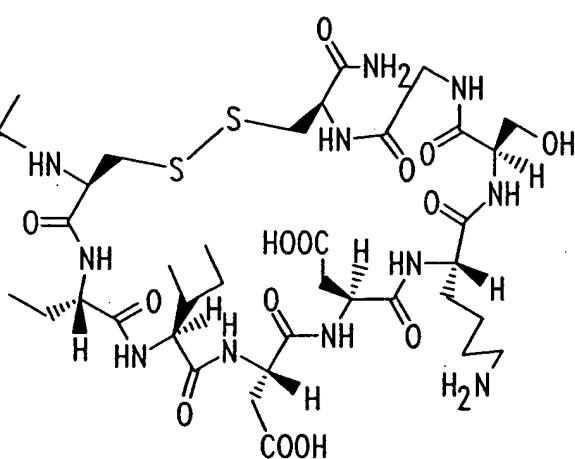
N-Ac-CVIDDKC-NH₂



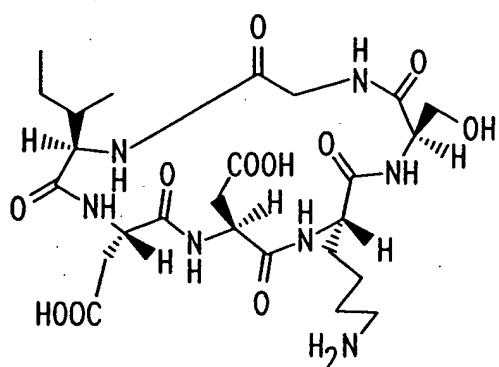
N-Ac-CVIDDKSC-NH₂



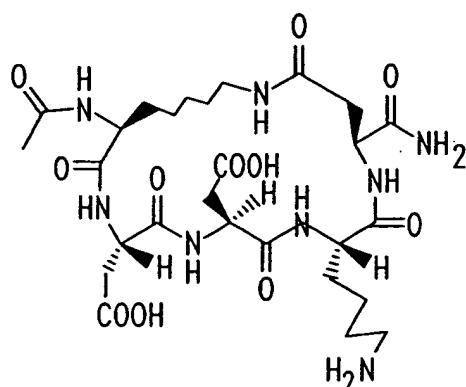
N-Ac-KIDDKSGD-NH₂



N-Ac-CVIDDKSGC-NH₂



N-Ac-IDDKSG-NH₂



N-Ac-KDDKD-NH₂

Fig. 4C

Title: COMPOUN METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1

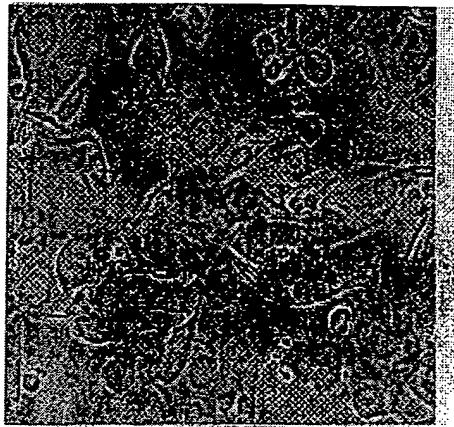


Fig. 5A

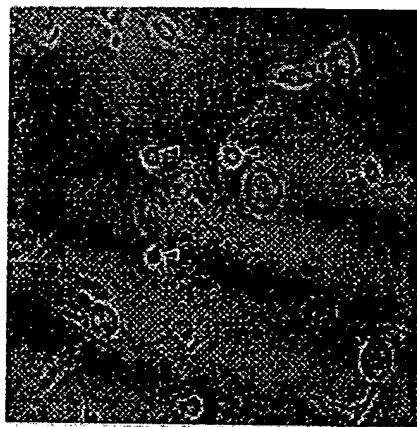


Fig. 5B

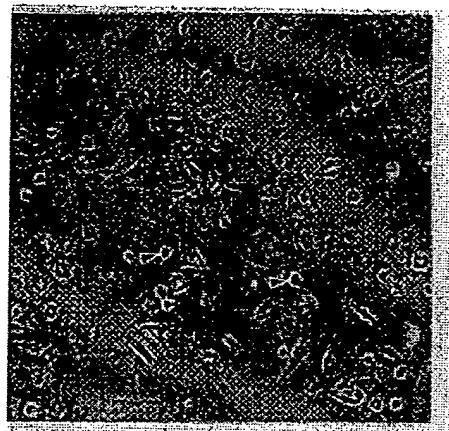
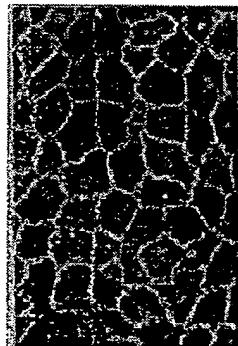


Fig. 5C

Title: COMPOUN~~D~~ METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Inventor(s): Orest W. Blaschuk et al. Serial No. 09/187,859 Docket No. 100086.407C1



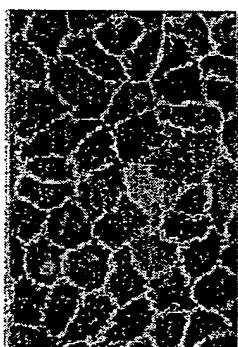
Control

Fig. 6A



Control

Fig. 6B



H-VFRVDAETGD-OH

Fig. 6C



H-VFRVDAETGD-OH

Fig. 6D



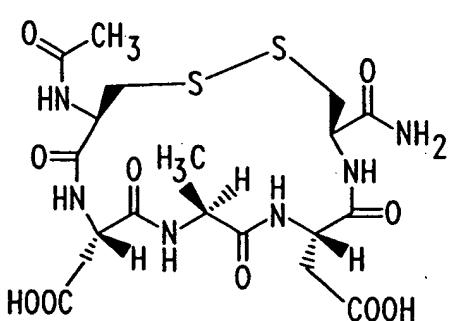
N-Ac-VFRVDAETGD-NH₂

Fig. 6E

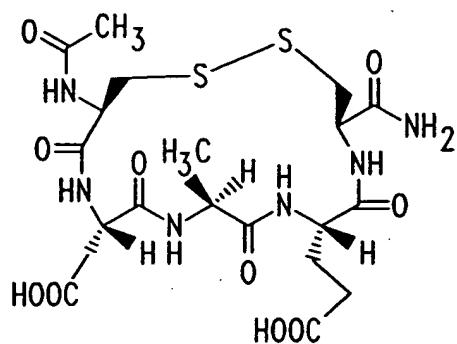


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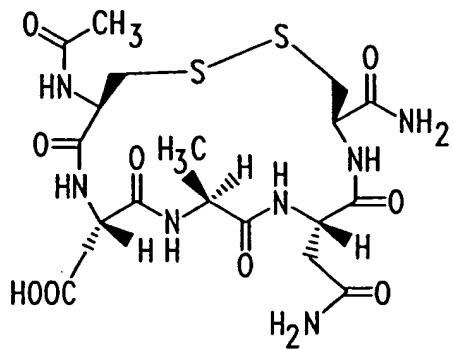
Fig. 6F



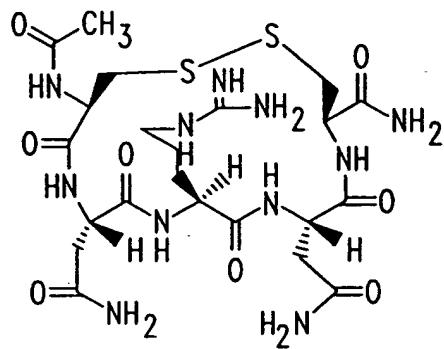
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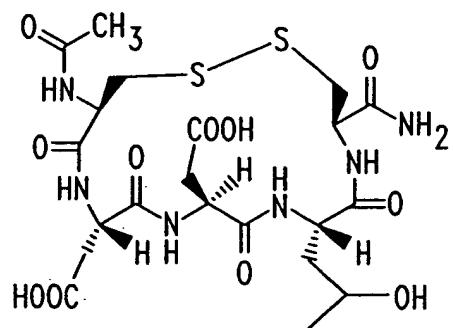
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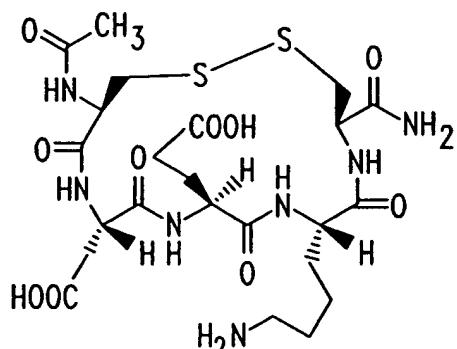
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N-Ac-CNRNC-NH₂

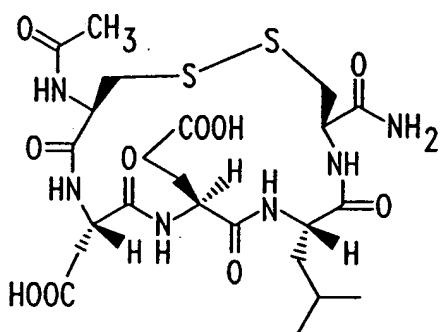


N-Ac-CDDTC-NH₂

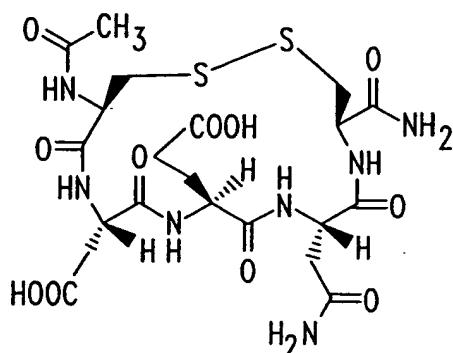


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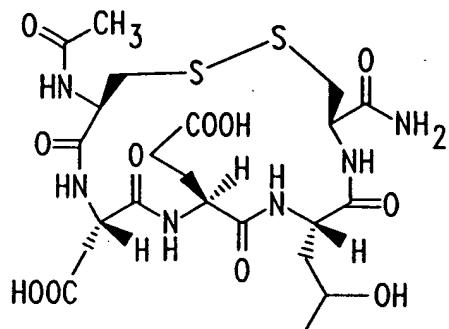
Fig. 7A



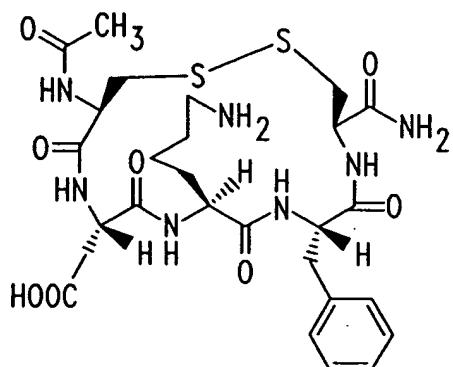
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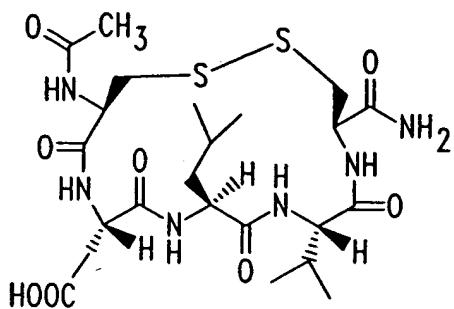
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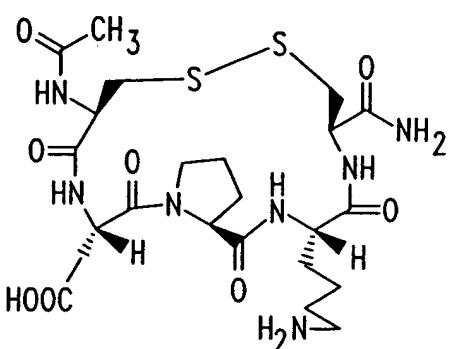
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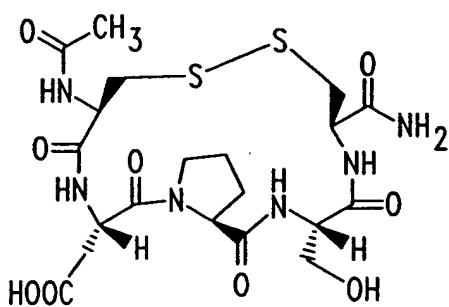


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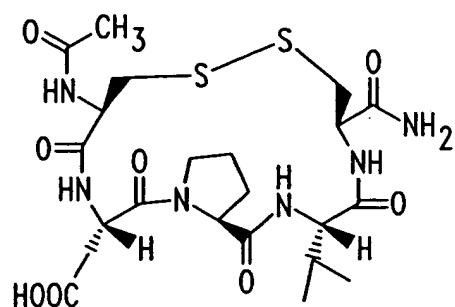


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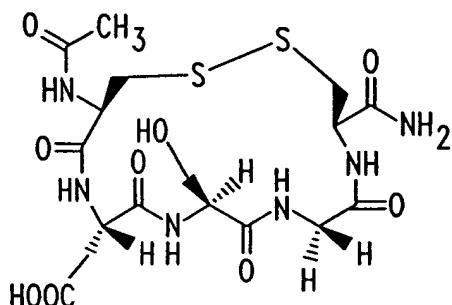
Fig. 7B



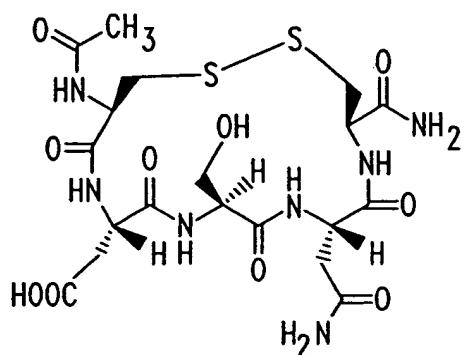
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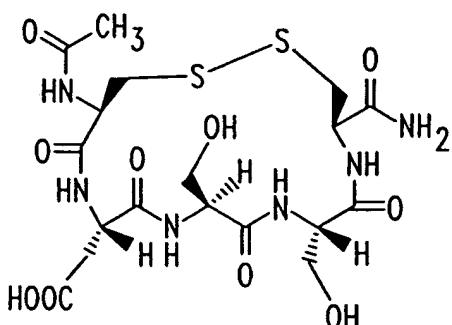
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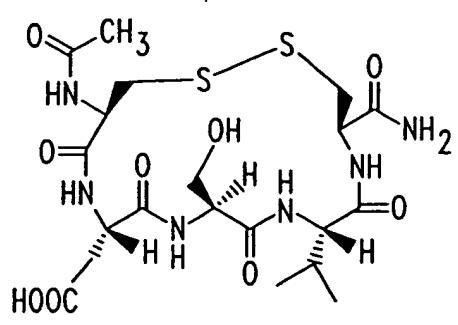
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N-Ac-CDSNC-NH₂



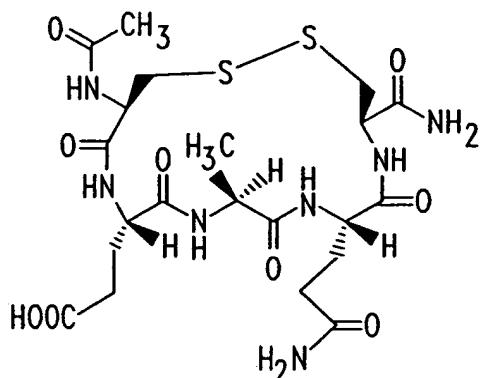
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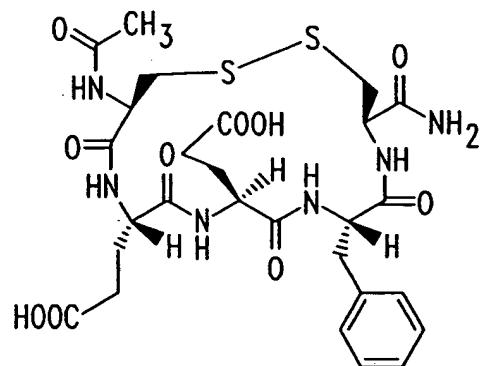
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Fig. 7C

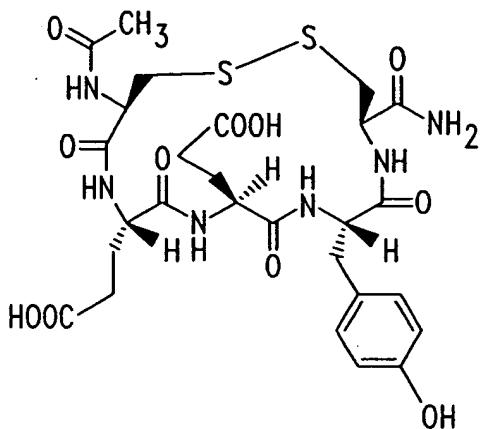
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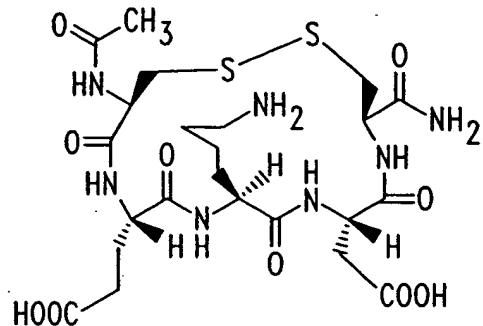
N-Ac-CEAQc-NH₂



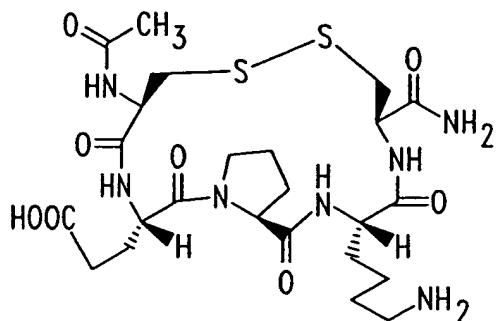
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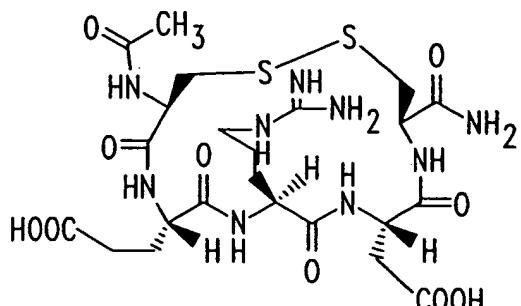
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N-Ac-CEKDC-NH₂



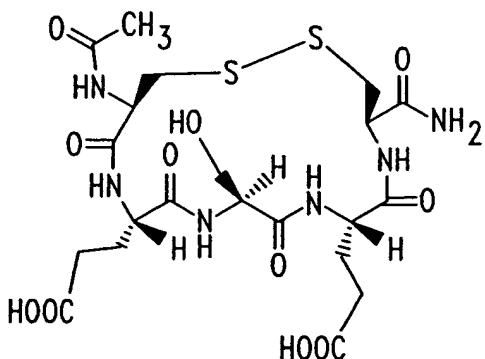
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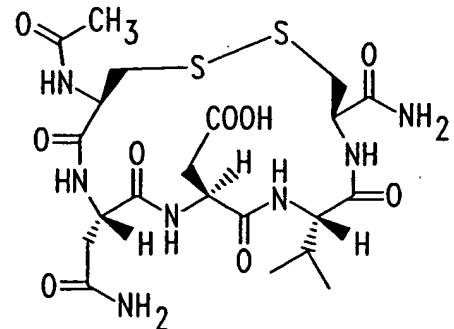
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Fig. 7D

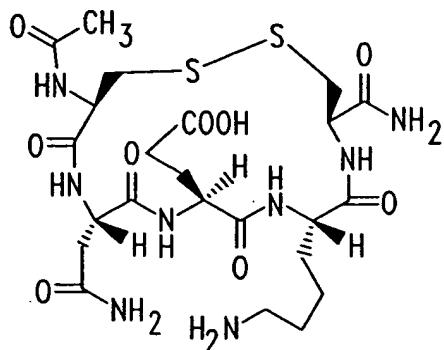
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Inventor(s): Orest A. Blaschuk et al. Serial No. 09/187,859 Bucket No. 100086.407C1



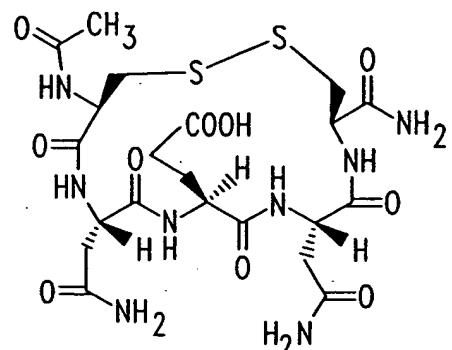
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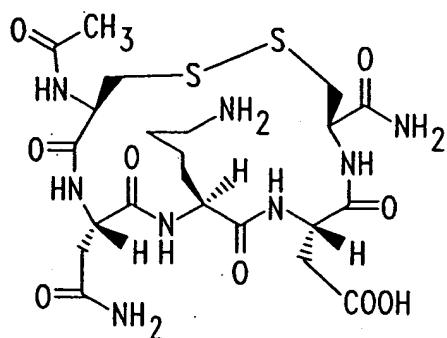
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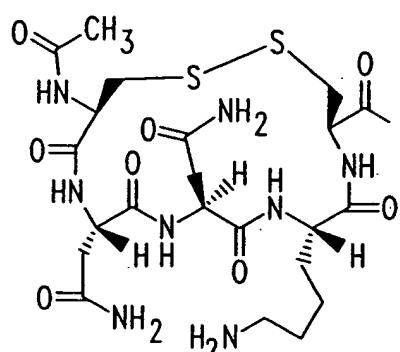
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N-Ac-CNENC-NH₂



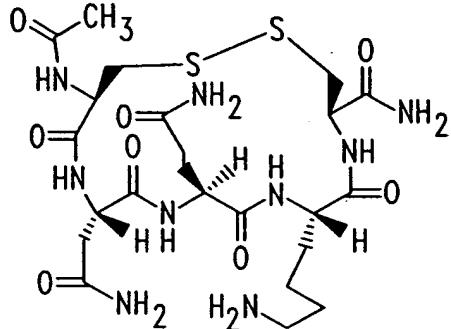
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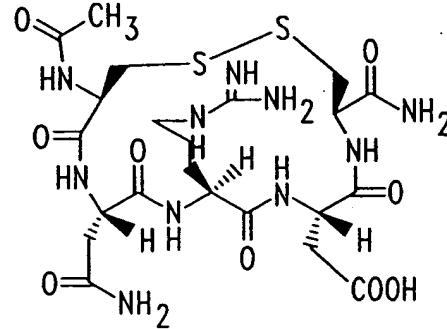
N-Ac-CNNKC-NH₂

Fig. 7E

Title: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADH5-MEDIATED FUNCTIONS
Inventor(s): Orest M. Blaschuk et al. Serial No. 09/187,859 Patent No. 100086.407C1



N-Ac-CNQKC-NH₂



N-Ac-CNRDC-NH₂

Fig. 7F